

09/427457

ABSTRACT OF THE DISCLOSURE

The invention provides a holographic image corrector which employs an optical system that has as an objective a lens or mirror. The characteristics of the objective are recorded by sending a first laser beam through a spatial filter (or an array of pinholes) and then through the objective, if a lens or reflecting the beam therefrom, if a mirror, to form an objective beam. Means are provided for directing a laser reference beam also through a spatial filter (or an array of pinholes) and intersecting same with the object beam in a recording medium, to form a hologram thereof. Then means illuminate the article to be viewed with a laser beam so that light therefrom passes through the objective or reflects therefrom and contacts the hologram, to reduce or correct for aberrations in the objective and provide a relatively clear image of the article.